



550 Watt Power Supply

RF-550WPS

User Guide

Rocketfish RF-550WPS 550 Watt Power Supply

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Introduction

Thank you for choosing this RF-550WPS power supply unit (PSU). Please read this manual carefully and follow the instructions before installing the PSU.

The RF-550WPS power supply complies with the newest Intel ATX12V version 2.3 specifications. This includes two +12V output circuits that deliver safe and reliable output to your system's components. In addition, this power supply is energy efficient, reducing power consumption by 80%. It also includes two PCI-E connectors for SLI.

Safety information

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS DEVICE TO RAIN OR MOISTURE.

	The lightning flash with arrowhead symbol, within an equilateral triangle is intended to alert the user to the presence of uninsulated dangerous voltage within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock.
	The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Safety regulations

The power supply meets safety guidelines and regulations for UL EN60950 and FCC



Important Safety Instructions

- Do not place your system near a radiator or other heat source.
- Do not place your system close to a source of strong magnetic fields.
- Do not place your system in a moist or dusty environment, or in an area subject to strong vibration.
- Do not place your system in direct sunlight.
- Do not open the cover on the power supply case. Dangerous voltages are present inside the cover. Your warranty is void if the cover is removed.

Features

- 550W peak 60S (500W continuous)
- Supports the latest Intel ATX12V 2.3 (back compatible with 2.1 and 2.2)
- Six output voltages
- Silent fan speed control
- Build-in DC remote ON/OFF, PG/PF TTL signal
- MTBF 100,000 hours minimum at 77° F (25° C)
- NVIDIA SLI™-ready certified
- Power Efficiency over 80%
- Cable management
- Components include:
 - RF-550WPS power supply unit
 - UL-approved AC power cable
 - Mounting screws (4)
 - Cable ties (3)
 - User Guide

Installing your power supply

To make sure you connect your power supply correctly, check your motherboard and graphics card manuals for compatibility before connecting RF-550WPS to any of your devices.

NOTICE: *Cable Management*

This product uses color coded sockets and cables for ease of use. Only use the plugs in the sockets with the same color ends. Red Sockets are to be used for PCI-E cables only. Black Sockets are to be used for all other connections.

WARNING: *Failure to follow these instructions may result in damage to your components*

To install your power supply:

- 1 Check your local AC voltage before installation (115 VAC voltage is for USA, Japan, and several others, and 230 VAC voltage is for Europe, Southeast Asia, and many other countries).

Caution: Make sure that you connect the PSU (Power supply unit) to local input AC voltage only. Setting the incorrect voltage can damage the power supply and connected equipment and may void your warranty. The RF-550WPS is compatible with 115 VAC and 230 VAC input voltage.

- 2 Turn off your computer, then unplug the power cord from your old power supply.
- 3 Open your computer case following the directions provided in your case manual.
- 4 Disconnect all PSU connectors from the motherboard and peripheral devices such as case fans, hard drives, floppy drives, DVD and CD drives.
- 5 Remove the old power supply from your computer case and install your new Rocketfish power supply.
- 6 Connect the 20+4-pin main power connector to your motherboard.
- 7 Connect the 4+4 +12 V power connector to your motherboard.
- 8 Connect the Serial ATA (SATA) connectors to the peripheral devices.
- 9 Connect the peripheral 4-pin power connectors if you are still using an IDE connector for hard drives or an optical drive.
- 10 Connect the 6-pin +12 V PCI-E connector to your PCI Express graphics cards, as needed.
- 11 Connect your case fans to the regular 4-pin peripheral connectors if you are using these fans.

Caution: Make sure that all connectors are correctly connected. Incorrect connection could prevent your computer from booting and some components might even be damaged.

- 12 Close your computer case and connect the AC power cord to the power supply.

Starting your computer

To start your computer:

- 1 Turn on the power supply by setting the I/O switch on the power supply to the "I" position.
- 2 Turn on your computer by pushing the power button on the front of your computer.

Troubleshooting

If the power supply fails to function properly, check the following before returning it for repair:

- Make sure that the power cord is plugged correctly into an AC power outlet and into the power supply.
- Make sure that the I/O switch on the power supply is switched to the "I" position.
- Make sure that all power connectors are properly connected to all components.

Specifications

Input voltage	100 V ~ 240 V
Active PFC	Power factor: >0.9
Efficiency	80% (minimum) at full load (typical)
Input current	115 VAC/6.0 A — 230 VAC/3.0 A max.
Inrush current	110 A max. when AC input is 230 VAC at 25°C cold start 55 A max. when AC input is 115 VAC at 25°C cold start
Input frequency	47 Hz ~ 63 Hz
Leakage current	3.5 mA max.
Operating temperature	50°F to 104°F (10°C to 40°C)
Shipping/storage temperature	-4°F to 158°F (-20°C to 70°C)
Relative humidity	5% to 95%
Harmonic	IEC-1000-3-2 Class D

Appendix

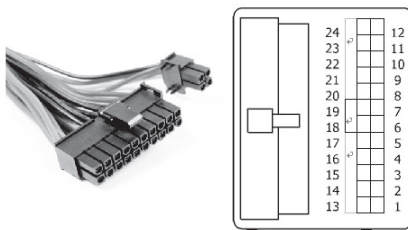
DC output voltages

DC spec	+12 V1	+12V2	+5V	+3.3V	-12V	+5VSB
Amps	18.0 A	18.0 A	15.0 A	24.0 A	0.3 A	3.0 A
Max power	432 W		130 W		3.6 W	15 W

Wire configuration

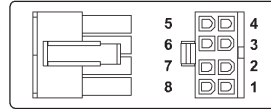
Model/Wires	20+4-pin main power	EPS 12 V 8 (4+4)-pin	5.25" HDD	Serial ATA	3.25" floppy drive	PCI-E 6-pin
RF-550WPS	1	1	7	6	1	2

Main power connector



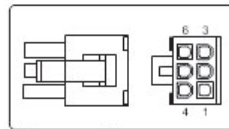
Voltage	Color	Pin	Pin	Color	Voltage
Com	Black	24	12	Orange	+3.3 V
+5V	Red	23	11	Yellow	+12 DC
+5 V	Red	22	10	Yellow	+12 DC
+5 V	Red	21	9	Purple	+5 Vsb
N/C	N/C	20	8	Gray	PWR_ON
Com	Black	19	7	Black	Com
Com	Black	18	6	Red	+5 V
Com	Black	17	5	Black	Com
PS_ON	Green	16	4	Red	+5 V
Com	Black	15	3	Black	Com
-12 V	Blue	14	2	Orange	+3.3 V
+3.3 V	Orange	13	1	Orange	+3.3 V

+12 V connector 8 (4+4)-pin



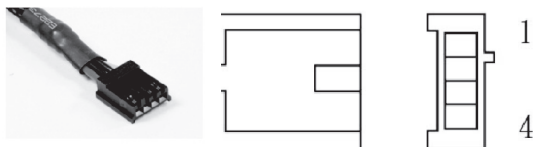
Color	Signal	Pin
Black	Com	1
Black	Com	2
Black	Com	3
Black	Com	4
Yellow/Black	+12 VDC	5
Yellow/Black	+12 VDC	6
Yellow/Black	+12 VDC	7
Yellow/Black	+12 VDC	8

PCI Express connector



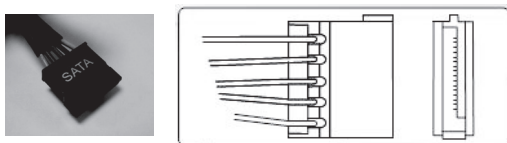
Color	Signal	Pin
Yellow	+12 VDC	1
Yellow	+12 VDC	2
Yellow	+12 VDC	3
Black	Com	4
Black	Com	5
Black	Com	6

Floppy drive connector



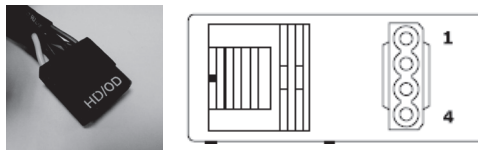
Color	Signal	Pin
Red	+5 VDC	1
Black	Com	2
Black	Com	3
Yellow	+12 VDC	4

SATA power connector



Color	Signal	Pin
Yellow	+12 VDC	1
Black	Com	2
Red	+5 VDC	3
Black	Com	4
Orange	+3.3 VDC	5

Peripheral connector



Color	Signal	Pin
Yellow	+12 VDC	1
Black	Com	2
Black	Com	3
Red	+5 VDC	4

Legal notices

FCC Part 15

This device complies with Part 15 of the FCC Rules. Operation of this product is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply within the limits for a class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.

- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced technician for help.

FCC warning

Changes or modifications not expressly approved by the party responsible for compliance with the FCC Rules could void the user's authority to operate this equipment.

Canada ICES-003 statement

This Class B digital apparatus complies with Canadian ICES-003.

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For service and support call 1-800-620-2790.

One-year limited warranty

Rocketfish Products ("Rocketfish") warrants to you, the original purchaser of this new **RF-550WPS** ("Product"), that the Product shall be free of defects in the original manufacture of the material or workmanship for one (1) year from the purchase of the Product ("Warranty Period"). This Product must be purchased from an authorized dealer of Rocketfish brand products and packaged with this warranty statement. This warranty does not cover refurbished Product. If you notify Rocketfish during the Warranty Period of a defect covered by this warranty that requires service, terms of this warranty apply.

How long does the coverage last?

The Warranty Period lasts for one year (365 days), beginning on the date you purchased the Product. The purchase date is printed on the receipt you received with the product.

What does this warranty cover?

During the Warranty Period, if the original manufacture of the material or workmanship of the Product is determined to be defective by an authorized Rocketfish repair center or store personnel, Rocketfish will (at its sole option): (1) repair the Product with new or rebuilt parts; or (2) replace the Product at no charge with new or rebuilt comparable products or parts. Products and parts replaced under this warranty become the property of Rocketfish and are not returned to you. If service of Products and parts are required after the Warranty Period expires, you must pay all labor and parts charges. This warranty lasts as long as you own your Rocketfish Product during the Warranty Period. Warranty coverage terminates if you sell or otherwise transfer the Product.

How to obtain warranty service?

If you purchased the Product at a retail store location, take your original receipt and the Product to the store you purchased it from. Make sure that you place the Product in its original packaging or packaging that provides the same amount of protection as the original packaging. If you purchased the Product from an online web site, mail your original receipt and the Product to the address listed on the web site. Make sure that you put the Product in its original packaging or packaging that provides the same amount of protection as the original packaging.

Where is the warranty valid?

This warranty is valid only to the original purchaser of the Product in the United States, Canada, and Mexico.

What does the warranty not cover?

This warranty does not cover:

- Customer instruction
- Installation
- Set up adjustments
- Cosmetic damage

- Damage due to acts of God, such as lightning strikes
- Accident
- Misuse
- Abuse
- Negligence
- Commercial use
- Modification of any part of the Product, including the antenna

This warranty also does not cover:

- Damage due to incorrect operation or maintenance
- Connection to an incorrect voltage supply
- Attempted repair by anyone other than a facility authorized by Rocketfish to service the Product
- Products sold as is or with all faults
- Consumables, such as fuses or batteries
- Products where the factory applied serial number has been altered or removed

REPAIR REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS YOUR EXCLUSIVE REMEDY. ROCKETFISH SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR THE BREACH OF ANY EXPRESS OR IMPLIED WARRANTY ON THIS PRODUCT, INCLUDING, BUT NOT LIMITED TO, LOST DATA, LOSS OF USE OF YOUR PRODUCT, LOST BUSINESS OR LOST PROFITS. ROCKETFISH PRODUCTS MAKES NO OTHER EXPRESS WARRANTIES WITH RESPECT TO THE PRODUCT, ALL EXPRESS AND IMPLIED WARRANTIES FOR THE PRODUCT, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTIES OF AND CONDITIONS OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO THE WARRANTY PERIOD SET FORTH ABOVE AND NO WARRANTIES, WHETHER EXPRESS OR IMPLIED, WILL APPLY AFTER THE WARRANTY PERIOD. SOME STATES, PROVINCES AND JURISDICTIONS DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS, WHICH VARY FROM STATE TO STATE OR PROVINCE TO PROVINCE.

Contact Rocketfish:

For customer service please call 1-800-620-2790

www.rocketfishproducts.com

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